



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/960,064	09/21/2001	Gregory Robert Roelofs	US 018156	4365

24738 7590 01/16/2004

PHILIPS ELECTRONICS NORTH AMERICA CORPORATION
INTELLECTUAL PROPERTY & STANDARDS
1109 MCKAY DRIVE, M/S-41SJ
SAN JOSE, CA 95131

EXAMINER

BRIER, JEFFERY A

ART UNIT	PAPER NUMBER
----------	--------------

2672

DATE MAILED: 01/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/960,064

Applicant(s)

ROELOFS, GREGORY ROBERT

Examiner

Jeffery A. Brier

Art Unit

2672

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 December 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

Response to Arguments

1. Applicant's arguments filed 12/14/03 have been fully considered but they are not persuasive. Applicant argues the claimed force modeler that models forces applied to a glyph dependent upon the placement of the glyph is not taught by Brassell. This claim limitation is a very broad claim limitation. The term force is a broad term and is met by Brassells' forcing of the glyph to integer raster locations. Column 6 lines 46-50 and 54-59 and column 7 lines 9-28 describes grid fitting the glyph onto the raster of pixels. Brassells' figure 7 shows the glyph before grid fitting and figure 8 shows the glyph after grid fitting, column 20 lines 24-30. Brassell meets applicants argument by forcing the glyph to positions on the raster. Definition 7 given by yourdictionary.com states force is a vector quantity and definition 2 state force is exertion.

force

(click to hear the word) (fôrs, fôrs)

n.

1. The capacity to do work or cause physical change; energy, strength, or active power: *the force of an explosion.*
2.
 - a. Power made operative against resistance; exertion: *use force in driving a nail.*
 - b. The use of physical power or violence to compel or restrain: *a confession obtained by force.*
3.
 - a. Intellectual power or vigor, especially as conveyed in writing or speech.
 - b. Moral strength.
 - c. A capacity for affecting the mind or behavior; efficacy: *the force of logical argumentation.*
 - d. One that possesses such capacity: *the forces of evil.*

Art Unit: 2672

4.
 - a. A body of persons or other resources organized or available for a certain purpose: *a large labor force*.
 - b. A person or group capable of influential action: *a retired senator who is still a force in national politics*.
5.
 - a. Military strength.
 - b. The entire military strength, as of a nation. Often used in the plural.
 - c. A unit of a nation's military personnel, especially one deployed into combat: *Our forces have at last engaged the enemy*.
6. Law Legal validity.
7. Physics A vector quantity that tends to produce an acceleration of a body in the direction of its application.
8. Baseball A force play.

The American Heritage® Dictionary of the English Language, Fourth Edition. Copyright © 2000 by Houghton Mifflin Company. Published by the Houghton Mifflin Company. All rights reserved.

© 1996-2002 yourDictionary.com, Inc. All Rights Reserved.

Applicants broad claim language is claiming exerting a force to move the glyph in certain direction. Since the claim does not define how a force is exerted onto the glyph, the glyph is merely positioned with regards to the determined force, then a reference moving a glyph to a position with regards to a determined value meets the claim. Brassell determines the direction to move the glyph and moves the glyph by hinting to perform the grid fitting. Column 4 lines 13-20 describes grid fitting by using hinting. Broadly one could state Brassells' grid fitting models forces which are applied to the glyphs forming the character in order to reposition the glyphs.

Applicants' specification describes the glyphs as having mass and having pixels exerting a force onto a respective glyph, see page 4 lines 10-21, the references of

Art Unit: 2672

record do not teach this, however, the claims do not claim this. Therefore the rejection is maintained and has been modified slightly to reply to the arguments.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Brassell et al. U.S. Patent No. 5,684,510. Brassell describes a system that grid fits glyphs onto pixels in accordance with values P, J and K and pixel coverage values which values force the glyph to one position or another position during grid fitting. Thus, Brassell teaches modeling forces to be exerted onto the glyph in order to move the glyph to an integer pixel position.

Art Unit: 2672

A detailed analysis of the claims follows.

Claim 1	Brassell et al. U.S. Patent No. 5,684,510
1. A rendering system comprising:	See figures 6-8.
a force modeler that is configured to model forces that are applied to a glyph in dependence upon a placement of the glyph, and	See figures 6-8 and column 17 line to column 18 line 6. The values of P, J and K and pixel coverage values are forces that are applied to a glyph in dependence upon the placement of the glyph because they are used when the glyph does not lie wholly on pixels but lies on partial pixels. The term force is a broad term as shown by the above yourdictionary.com definition.
a glyph positioner, operably coupled to the force modeler, that is configured to select a preferred placement of the glyph, based on the forces that are applied to the glyph at the preferred placement.	The glyph at figure 7 is modified based upon the force values derived from P, J, and K and the location of the glyph on the pixel grid to produce the glyph shown in figure 8. Column 4 lines 13-20 describes grid fitting. Since the claim does not define how a force is exerted onto the glyph, the glyph is merely positioned with regards to the determined force, then Brassells' moving a glyph to a position with regards to a determined value meets the claim.

Claim 2:

Step 72 scales the glyph and provides the glyph to the glyph positioner, based on a glyph description from step 71.

Claim 3:

See column 11 lines 27-30 where display 16 and printer 17 are described.

Display 16 and printer 17 will render the glyph at the preferred placement determined by the algorithm of figure 6.

Art Unit: 2672

Claim 4:

See figures 6-8, steps 75, 78 and 79 determines the "force" to be applied to the glyph to move the glyph to an integer position, see column 17 lines 20-23 and column 12 lines 56-65, inherently the amount of coverage determines the amount of movement of the glyph from the glyph's location illustrated in figure 7 to its location in figure 8.

Claim 5:

Figure 7 illustrates the set of pixels comprises pixels that are partially covered by the glyph.

Claim 6:

In step 78 the grid fitting takes into account the preferred spacing of the glyph relative to an adjacent glyph, thus, the force to be applied to the glyph is a function of the spacing of the glyphs.

Claim 7:

As stated above for claim 6 the preferred spacing of the glyph relative to an adjacent glyph, thus, the force to be applied to the glyph is a function of the spacing of the glyphs.

Claim 8:

The grid fitting uses at least a linear model.

Claim 9:

Figure 7 illustrates a glyph's coverage over pixels, based upon the coverage the glyph is moved to cover whole pixels, thus, based on a coverage of one

or more pixels by the glyph the "force" applied to move the glyph is determined so as to effect a change of the coverage of the one or more pixels by the glyph.

Claim 10 is a method version of apparatus claim 1 which claims the same function claimed in claim 1 and is rejected for the reasons given for claim 1.

Claim 11 is a method version of apparatus claim 2 which claims the same function claimed in claim 2 and is rejected for the reasons given for claim 2.

Claim 12 is a method version of apparatus claim 3 which claims the same function claimed in claim 3 and is rejected for the reasons given for claim 3.

Claim 13 is a method version of apparatus claim 4 which claims the same function claimed in claim 4 and is rejected for the reasons given for claim 4.

Claim 14 is a method version of apparatus claim 5 which claims the same function claimed in claim 5 and is rejected for the reasons given for claim 5.

Claim 15 is a method version of apparatus claim 6 which claims the same function claimed in claim 6 and is rejected for the reasons given for claim 6.

Claim 16 is a method version of apparatus claim 7 which claims the same function claimed in claim 7 and is rejected for the reasons given for claim 7.

Claim 17 is a method version of apparatus claim 8 which claims the same function claimed in claim 8 and is rejected for the reasons given for claim 8.

Claim 18 is a method version of apparatus claim 9 which claims the same function claimed in claim 9 and is rejected for the reasons given for claim 9.

Art Unit: 2672

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffery A. Brier whose telephone number is (703) 305-4723. The examiner can normally be reached on M-F from 6:30 to 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi, can be reached at (703) 305-4713).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

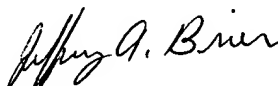
or faxed to:

(703) 872-9306 (for Technology Center 2600 only)

Art Unit: 2672

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.



Jeffery A Brier
Primary Examiner
Art Unit 2672